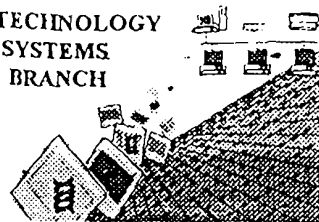


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/900,063B
Source: 1600
Date Processed by STIC: 10/30/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/2003):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/2003



16

RAW SEQUENCE LISTING

DATE: 10/30/2003

PATENT APPLICATION: US/09/900,063B

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

3 <110> APPLICANT: Rothschild, Max F.
 4 Vincent, Amy L.
 5 Tuggle, Christopher K.
 7 <120> TITLE OF INVENTION: PROLACTIN RECEPTOR GENE AS A GENETIC MARKER FOR INCREASED LITTER
 8 SIZE IN ANIMALS
 10 <130> FILE REFERENCE: P02285UD5
 12 <140> CURRENT APPLICATION NUMBER: US 09/900,063B
 13 <141> CURRENT FILING DATE: 2001-07-06
 15 <150> PRIOR APPLICATION NUMBER: US 08/812,208
 16 <151> PRIOR FILING DATE: 1997-03-06
 18 <150> PRIOR APPLICATION NUMBER: US 08/742,805
 19 <151> PRIOR FILING DATE: 1996-11-01
 21 <150> PRIOR APPLICATION NUMBER: US 60/022,180
 22 <151> PRIOR FILING DATE: 1996-07-19
 24 <160> NUMBER OF SEQ ID NOS: 18
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 20
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Porcine
 33 <400> SEQUENCE: 1
 34 cccaaaacag caggagaacg 20
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 20
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Porcine
 42 <400> SEQUENCE: 2
 43 ggcaagtggg tgaaaatgga 20
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 492
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Porcine
 52 <220> FEATURE:
 53 <221> NAME/KEY: allele
 54 <222> LOCATION: (240)..(240) "g" is at location 240
 55 <223> OTHER INFORMATION: r = a or g
 57 <400> SEQUENCE: 3
 58 aagtcaacaa agatggagca ctggcggttg tcccaaaaca qcaggagaac ggcgaccggc 60
 60 cggagaaggc tggcgccctt gaaaccagca aggaatacgc ccaggtgtcc cgggtgatgg 120
 62 ataaccacat cctggtgtta gtgcaggatc cgcgagctcg aaacgtggct ccgittgaag 180
 64 aaccaaccaa ggagaccccg ccattccggc cgcagaatcc agctgcgaaa gacctggcgg 240
 66 gcttcaccac ggccccgggc cactgcagac acccgctggg tgggctggat tacctcgatc 300
 68 ccgcaggctt tatgcactcc ttctagtgag agcttggttc atgggatgat gggttacaa 360

Does Not Comply
 Corrected Diagnostic Needles

pp 1-2

RAW SEQUENCE LISTING

DATE: 10/30/2003

PATENT APPLICATION: US/09/900,063B

TIME: 10:05:43

Input Set : A:\Rothschild P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

70 gtgggggtttt tttcaggtcg cactacgtga aatgcactct accagagaaa gctcgaaaat 420
 72 ggggttagaa tgacactacc cagactcaca gttcactcct ctcatgctc cattticaac 480
 74 cacttgccctc tt 492
 77 <210> SEQ ID NO: 4
 78 <211> LENGTH: 20
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Unknown
 82 <220> FEATURE:
 83 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 84 were used to design the degenerate primer
 87 <220> FEATURE:
 88 <221> NAME/KEY: misc difference
 89 <222> LOCATION: (13)..(13) *"c" is at location 13*
 90 <223> OTHER INFORMATION: y = c or t
 92 <400> SEQUENCE: 4
 93 tcacaagggtc aacaagatg 20
 96 <210> SEQ ID NO: 5
 97 <211> LENGTH: 20
 98 <212> TYPE: DNA
 99 <213> ORGANISM: Unknown
 101 <220> FEATURE:
 102 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 103 were used to design the degenerate primer
 106 <220> FEATURE:
 107 <221> NAME/KEY: misc feature
 108 <223> OTHER INFORMATION: r = g or a *no r's are present in the sequence*
 110 <220> FEATURE:
 111 <221> NAME/KEY: misc difference
 112 <222> LOCATION: (3)..(3) *g is at location 3*
 113 <223> OTHER INFORMATION: r = g or a
 115 <220> FEATURE:
 116 <221> NAME/KEY: misc difference
 117 <222> LOCATION: (9)..(9) *g is at location 9*
 118 <223> OTHER INFORMATION: r = g or a
 120 <220> FEATURE:
 121 <221> NAME/KEY: misc difference
 122 <222> LOCATION: (16)..(16) *g is at location 16*
 123 <223> OTHER INFORMATION: r = g or a
 125 <400> SEQUENCE: 5
 126 tggagaaaga ggcaagtgg 20
 129 <210> SEQ ID NO: 6
 130 <211> LENGTH: 20
 131 <212> TYPE: DNA
 132 <213> ORGANISM: Porcine
 134 <400> SEQUENCE: 6
 135 cggccgcaga atcctgctgc 20
 138 <210> SEQ ID NO: 7
 139 <211> LENGTH: 24
 140 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 10/30/2003

PATENT APPLICATION: US/09/900,063B

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

```

141 <213> ORGANISM: Porcine
143 <400> SEQUENCE: 7
144 accccacctt gtaacccatc atcc 24
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 18
149 <212> TYPE: DNA
150 <213> ORGANISM: Porcine
152 <400> SEQUENCE: 8
153 caaggtggga acatgaqt 18
156 <210> SEQ ID NO: 9
157 <211> LENGTH: 20
158 <212> TYPE: DNA
159 <213> ORGANISM: Porcine
161 <400> SEQUENCE: 9
162 aatcctttta tttttggccc 20
165 <210> SEQ ID NO: 10
166 <211> LENGTH: 20
167 <212> TYPE: DNA
168 <213> ORGANISM: Porcine
170 <400> SEQUENCE: 10
171 gattattgtc tgggcagtgg 20
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 20
176 <212> TYPE: DNA
177 <213> ORGANISM: Porcine
179 <400> SEQUENCE: 11
180 aatcctttta tttttggccc 20
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 20
185 <212> TYPE: DNA
186 <213> ORGANISM: Porcine
188 <400> SEQUENCE: 12
189 gattattgtc tgggcagtgg 20
192 <210> SEQ ID NO: 13
193 <211> LENGTH: 23
194 <212> TYPE: DNA
195 <213> ORGANISM: Porcine
197 <400> SEQUENCE: 13
198 ctatttcaca aaaactgcgc tac 23
201 <210> SEQ ID NO: 14
202 <211> LENGTH: 566
203 <212> TYPE: DNA
204 <213> ORGANISM: Porcine
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (36)..(36)
210 <223> OTHER INFORMATION: n = unknown nucleotide position 36
212 <400> SEQUENCE: 14
> 213 gattattgtc tgggcagtgg tttttttgt ctatcnaccc cctccatt catggctctc 60

```

RAW SEQUENCE LISTING

DATE: 10/30/2003

PATENT APPLICATION: US/09/900,063B

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

```

215 aggggtataat ggccaaaaaa aagacaagac aaaaatgatg gaaacctaca gataatttaa 120
217 gcacctcatt ttgccattag ctgcattagc cataaaaaaa aaaaaaaaaa ccttttctca 180
219 gtgctagaaa aaaacagaat agactcatTT gaaactgac ttctctctac caaagggagt 240
221 agcgagttg tgaaatagta aacgtctgac aagaacagca aataatccca ctagtaattt 300
223 cagaatccgc ctctcaatt agccagaatt cactgtgatg ctggcctcta taattattat 360
225 ttgtcttcac cactgattag tttcacatca tgaaaattgc atgtcattta gtttcacrta 420
227 gcctcagaac caacctaat tcctacctgc catatccctg tagcagctat tcgaagatca 480
229 caaggtggga acatgtgtya tttatctttt ctcttacatt attttagagc atgggtggcct 540
231 gcatccgggc caaaaataaa aggatt 566
234 <210> SEQ ID NO: 15
235 <211> LENGTH: 518
236 <212> TYPE: DNA
237 <213> ORGANISM: Porcine
240 <220> FEATURE:
241 <221> NAME/KEY: misc_feature
242 <222> LOCATION: (49)..(49)
243 <223> OTHER INFORMATION: n = unknown in nucleotide position 49
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (67)..(67)
248 <223> OTHER INFORMATION: n = unknown in nucleotide position 67
250 <400> SEQUENCE: 15
> 251 gtacacacac acacacacac acacacacac acacaccacc gttaagctnt ctttctgaat 60
253 catgccnacc cgagggccac ccatagagga gtgtgggtgga ggggtgccttg gcacttctga 120
255 gccctgcac cctacaccca ctagcctcaa gatgtcatcc ctgccctggc cccacccat 180
257 ctgcttctgt caccagcaga atgggtccagt cattgagcgg accctcatat tgactccagt 240
259 ggcttctggc tttttctagg acagtcaact ccgggaaaaac ctgagatctt caaatgtcgl 300
261 tctcccga aa agaaacatt cgctgctgg tggaagccgg gggcggtatg aggacttct 360
263 accaactaga cgctgactta ccacaaggaa gggtaagcat tcgcgtgtct cccaacaaac 420
265 cacacgagtg ttctctctct gtgggccaga ggaacactgc ttctgggtta gaactgcctc 480
267 gctttggagt tcccgtcatg gctcagtggt aacgaatc 518
270 <210> SEQ ID NO: 16
271 <211> LENGTH: 133
272 <212> TYPE: DNA
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 16
276 gacagtacc tcttgga aaa cctgagatct ttaaagtctg ttctcccaat aaggaaacat 60
278 tcacctgctg gtggaggcct gggacagatg gaggacttcc taccaattat tcaactgact 120
280 accacagga agg 133
283 <210> SEQ ID NO: 17
284 <211> LENGTH: 53
285 <212> TYPE: PRT
286 <213> ORGANISM: Homo sapiens
288 <400> SEQUENCE: 17
290 Gly Gln Leu Pro Pro Gly Lys Pro Glu Ile Phe Lys Ser Pro Phe Cys
291 1 5 10 15
294 Arg Ser Pro Asn Lys Glu Thr Phe Thr Glu Ala Arg Pro Gly Thr Asp
295 20 25 30
298 Gly Gly Leu Pro Thr Asn Lys Pro Ala Asn Tyr Ser Leu Thr Tyr His

```

RAW SEQUENCE LISTING

DATE: 10/30/2003

PATENT APPLICATION: US/09/900,063B

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

```
299          35          40          45
302 Arg Glu Gly Thr Lys
303          50
306 <210> SEQ ID NO: 18
307 <211> LENGTH: 132
308 <212> TYPE: DNA
309 <213> ORGANISM: Porcine
311 <400> SEQUENCE: 18
312 acagtcacct ccgggaaaac ctgagatctt caaatgtcgt tctcccgaaa aggaaacatt      60
314 cgcctgctgg tggaagccgg gggcggatgg aggacttcct accaactaga cgctgactta      120
316 ccacaaggaa gg                                     132
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/30/2003
PATENT APPLICATION: US/09/900,063B TIME: 10:05:44

Input Set : A:\Rothschild_P02285US5.ST25.txt
Output Set: N:\CRF4\10302003\I900063B.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the
uence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:14; N Pos. 36
#:15; N Pos. 49,67

VERIFICATION SUMMARY

DATE: 10/30/2003

PATENT APPLICATION: US/09/900,063B

TIME: 10:05:44

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

13 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
41 Repeated in SeqNo=15